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The Boston Water Purifier.







THE most important question to-day from a hygienic standpoint is that of PURE DRINKING WATER. With the rapid advance of scientific investigation, it has been clearly demonstrated that all zymotic diseases originate from the drinking of impure water.

The most dreaded pestilences in our northern climate—diphtheria and typhoid fever—are traced directly to this one source. The prevalent summer malady of dysentery is nearly always a result of drinking impure water. As to cholera, that most dreaded of all scourges, it has been proven by statistics that *over ninety per cent. of all cases of cholera come solely from drinking impure or contaminated water.*

It is well known that water is the breeding ground of an immense variety of germ life. Pure water is very rare.

Every one of the so-called "Spring" waters has a greater or less per cent. of impurities. The water supply of our cities and towns is rarely of a high standard of purity. Discoloration reveals the constant presence of animal or vegetable matter in solution. Even if the water has no poisonous gases or substances, there is always the possibility of some new contamination coming unexpectedly. In country towns and villages, using the water of cisterns and wells, the danger is unquestioned, and the newspapers almost daily chronicle some new outbreak of infectious disease originating in impure drinking water.

The time has come when every thoughtful man and woman is alive to the dangers of drinking impure water. Some method of escape from these dangers has become a necessity.

If the public could once be brought to realize the risks it daily runs, there would be no more drinking of impure water at any cost.

To secure water of an unquestioned purity it is necessary to have something very different from an ordinary filter. No mere filtration of water will eliminate dangerous gases, coloring matter, or poisonous substances *held in suspension*. To accomplish this result the water must be absolutely purified, and the only method now known of positively purifying water is by means of a

## BOSTON WATER PURIFIER.

We do not hesitate to make the broad claim that the Boston Water Purifier has no equal. It renders water actually clearer than double distilled (the standard) and absolutely free from all impurities whatever. Not only this, but it maintains the liquid after purification in an aseptic condition by storage in a glass reservoir, thus preventing all danger of later contamination from metallic oxides, which are always unhealthful.

It is clearly of the first importance that a Purifier should do its work *completely*. The most dangerous poisons are often the most subtle and the hardest to remove. The Boston Water Purifier filters and *doubly purifies*. With proper care it is absolutely germ-proof. At the end of two years it becomes necessary to renew the filtering medium, which can be done at trifling cost.

From all that has been said it is evident that our claims for the Boston Water Purifier are fourfold:

**FIRST.**—It is the most perfect purifier in the world, and the *only* one that will absolutely remove from water all matter held in suspension.

**SECOND.**—With proper care it is *GERM-PROOF*. By placing the tubes in boiling water or heated oven once a week it is *continuously germ-proof*.

**THIRD.**—The purified water is maintained strictly pure by storage in a glass reservoir, avoiding all danger from metallic oxides.

**FOURTH.**—As appears in later pages, the Purifier is easily cleansed without changing the filtering or purifying medium.



## THE PURIFYING MEDIUM.

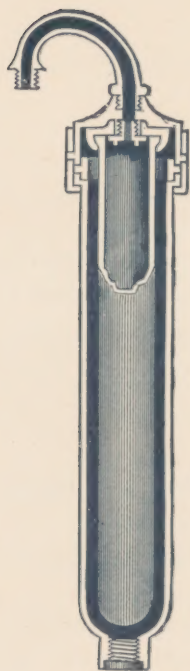
Price of Extra Tube, 50 cents.

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IT is an unglazed, porous porcelain tube, made exclusively of American clays, which we find peculiarly adapted to this purpose. The tube is ten inches in length and one and one-quarter inches in diameter, and is of such fine quality and the porosity so close as to prevent the passage of all micro-organisms, however minute. Their construction is exceedingly uniform, all being alike in porosity, size and thickness, and the filtering power of each tube the same. These tubes are made by machinery, which we have especially constructed for the purpose and upon which we have letters patent.

Every tube is thoroughly tested before leaving the factory and the possibility of finding an imperfect one reduced to a minimum.



PATENT ALLOWED.

### SECTIONAL VIEW, DIRECT DELIVERY No. 1.

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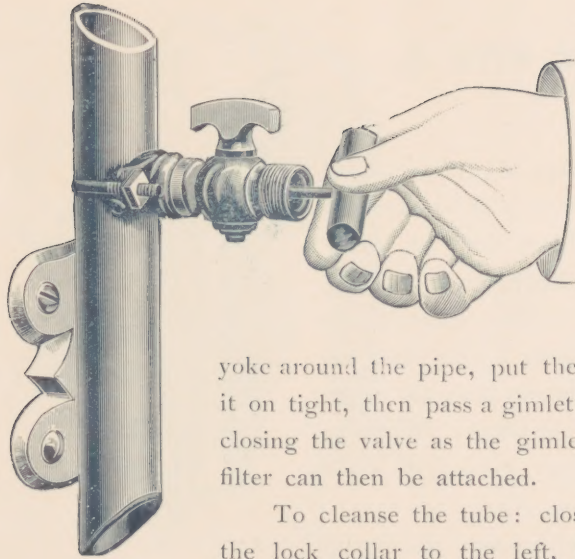
THIS cut represents a sectional view of the filter case and tube in position. The lower end is threaded and screws on to the faucet connection supplied with each filter. The water enters at this point, surrounds the tube, and is forced through the walls of the porcelain tube and discharged through the goose-neck at the top. All suspended matter is arrested and lodged on the outer surface of the tube, and is readily removed with a hard brush and either hot or cold water.

# PRESSURE FILTERS.

BOSTON WATER PURIFIERS.

## PRESSURE FILTER No. 1.

Price, Tinned, \$7.00. Nickel Plated, \$9.00.

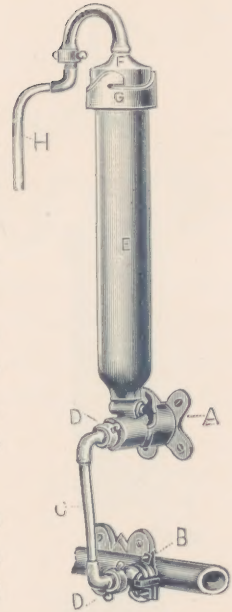


THIS cut represents the No. 1 Pressure Filter connected direct with the service pipe. The pipe is run from the water service to the filter, having couplings on both ends which fit the thread on both the filter and service connections.

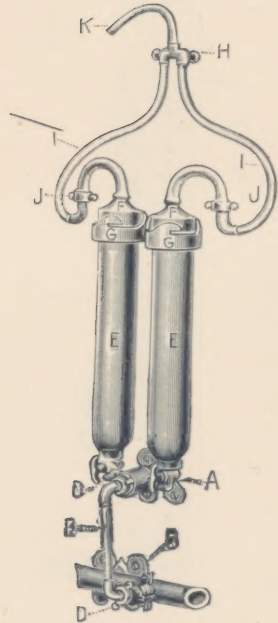
To connect to the service pipe, place the brass yoke around the pipe, put the rubber washer between the yoke and bar, screw it on tight, then pass a gimlet through the valve and bore through the lead pipe, closing the valve as the gimlet is withdrawn. The pipe connecting with the filter can then be attached.

To cleanse the tube: close the upper faucet, to shut off the pressure; turn the lock collar to the left, lift out the tube, and without removing it from the rubber gasket which holds it scrub vigorously with brush and hot or cold water until all sediment is removed from the outer surface of the tube. To obtain good results tubes must be kept clean. Soap, sapolio, or other cleansing preparations, or anything of a greasy nature, must never be used. Use the brush and sand.

This filter will furnish five to ten gallons per day, if kept clean.

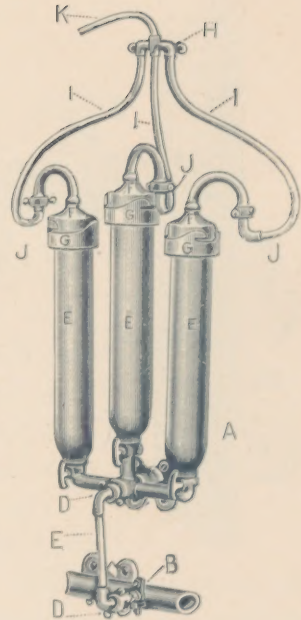


## PRESSURE FILTERS Nos. 2 AND 3.

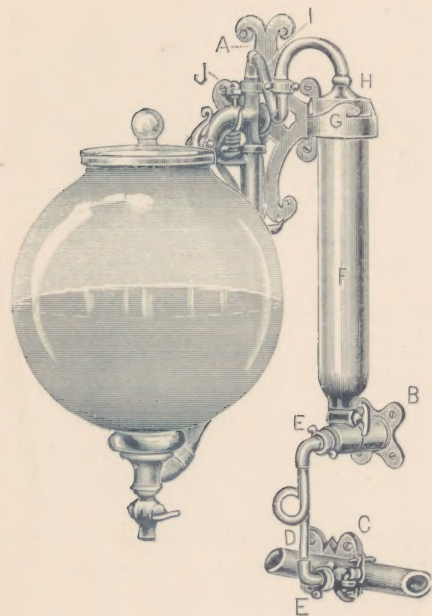


THESE cuts represent Pressure Filters Numbers 2 and 3, having capacity double and treble that of No. 1. It will be observed that each filter is connected by means of the block tin pipe to the small collector at the top, through which the single pipe of block tin conveys the purified water to the reservoir. This reservoir can be placed in whatever location is most convenient. The filter can be attached directly to the faucet over the kitchen sink, in which case it does not interfere with the drawing of unfiltered water; or it can be placed in any location convenient and connection made with reservoir pipe as previously described.

In applying connection to brass or iron pipe, use ratchet bit stock and twist drill instead of gimlet.







## No. 1 STANDARD PRESSURE FILTER.

Complete, \$17. Without Filter, \$10.

THIS cut represents the No. 1 Standard Pressure Purifier. The closing is made thoroughly automatic by the weight of the water in the globe. This globe can also be used in connection with the Gravity Filters (hereafter mentioned) and when so used becomes a very desirable restaurant fixture for cooling water.

The advantage of this system is apparent to any thinking man or woman, as glass is the best known material for the storage of liquids.

## GRAVITY FILTERS.

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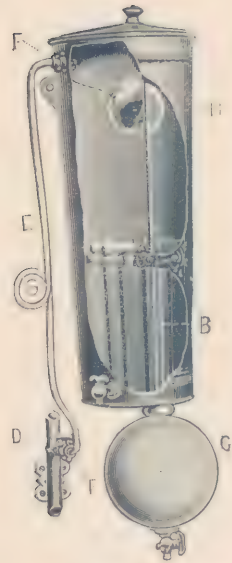
IN addition to our line of pressure filters previously described, we have, after long and careful study, prepared a Gravity Filter which we consider contains all the good qualities of the pressure system and many which that style does not possess. These filters have the merit of great simplicity, are perfect in their appointments, and we are able to offer them at a price which puts them within the reach of moderate purses.

The simple weight of the water contained in the tank forcing itself through the minute pores of the porcelain tubes, does not firmly implant the impurities on the surface of the tubes as is done by the direct pressure from the mains; thus obviating the necessity of frequent cleansing and purification of the tubes. Owing to the fact that wherever the water supply is particularly impure, it becomes necessary with the pressure system to cleanse the tubes frequently (sometimes twice daily), while with the Gravity Filter the tubes will not require cleaning more frequently than from one to two weeks (or longer). We prefer to recommend the Gravity style for general household use.

By our perfect system of storage of purified water no contamination can reach it from atmospheric sources, or poisonous oxides from metallic reservoirs. The water remains sweet indefinitely in the glass receptacle.

## GRAVITY FILTERS. BOSTON WATER PURIFIER.

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PATENT PENDING.

THE accompanying cut illustrates a sectional view of our **Gravity Purifier**. The porcelain tubes are suspended by means of close-fitting, pure rubber gaskets, which are attached to the collectors by means of small thumb-screws on their inside. Each collector holds four tubes, and is connected by means of a small ground union to each other. The outlet from the collectors is also connected by means of the ground union to the block tin pipe leading from them, and through which the purified water is discharged into the globe reservoirs.

The block tin tube leading from the reservoir to the top of the tank allows the air in the globe to escape as it is being filled with water, and also admits air when the globe is being emptied, and serves as an overflow when the globe is filled, carrying the water back to its level in the tank, when filtration ceases. Thus you will observe that no danger can arise from overflow of water as is the case with other filters of the non-pressure style.

We take great pleasure in recommending this water purifier to the public; it meets with a growing demand from all parts of the country, especially where there is no system of public water supply.

We cannot urge it too strongly upon the attention of those for whom it is not safe —on account of kidney trouble—to drink water containing lime or other inorganic solids in solution. It will be seen how practical—

from their position—it is to fill the tubes with granulated carbon, whereby the water is rendered absolutely pure by absorption and oxidization of all organic substances held in solution.

This is the only filter upon the market of which we have any knowledge where the filtered water comes in direct contact with purifying agents, and undergoes a double purification. Owing to the fact that the porcelain tube retains on its outer surface all matter of whatever nature, the purifying material on the inside of the tube retains its oxidizing powers for an almost indefinite period.

Our Gravity Filters are divided into three classes, lettered respectively “A,” “B” and “C,” according to their capacity.

Class **A** contains four tubes with tank capacity for two gallons of unfiltered water, and storage reservoir for purified water of one-half gallon. A No. 4 A filter will yield per day about three gallons of purified water.

Class **B** is made in two numbers, 4 and 8, referring to the number of tubes contained. Capacity of tank for unfiltered water is four and one-half gallons; storage reservoir for purified water, one gallon. No. 4 B will supply about four gallons of purified water per day. No. 8 B will supply eight gallons of the same.

Style **C** is divided into numbers 8, 12, 16 and 20, such numbers referring respectively to the number of tubes contained. Capacity of tank in Style C is eight gallons; capacity of reservoir for storage and purified water, two gallons.

No. 8 C will furnish 8 gallons of purified water per day.

“ 12 C	“	“	12	“	“	“	“	“
“ 16 C	“	“	16	“	“	“	“	“
“ 20 C	“	“	20	“	“	“	“	“



Gravity Filters B and C are provided with direct connections to water main or service pipe, shut-off by the simple attachment described on page 7. The block tin pipe can be carried from the service pipe to any point where it is desired to place the Gravity Filter. The same is connected with the filter, and with a very simple float valve attachment the supply is cut off whenever the tank is full.

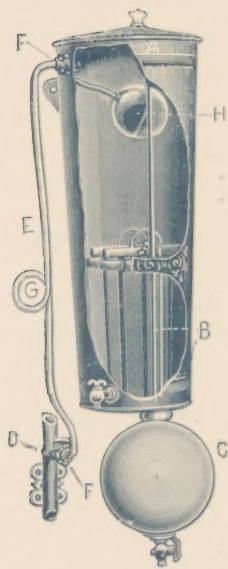
Its workings are **ABSOLUTELY AUTOMATIC.**

## CLEANING.

Number A Filter will be found to require cleaning of tubes about weekly. Numbers B and C once in two weeks. Of course the length of time which the filter will run without requiring to be cleaned will vary according to the quantity of water used and the purity of the same. In giving these figures above we have endeavored to be very conservative, and in most cases it will probably be found that cleaning will not be required as often as we have stated.



A GRAVITY FILTER.



B GRAVITY FILTER.  
Sectional View, showing Float Valve.



C GRAVITY FILTER.

### GRAVITY FILTERS PRICE LIST.

JAPAN.	
4 A, . . . .	\$ 8.00
4 B, . . . .	12.00
8 B, . . . .	15.00
8 C, . . . .	17.00

JAPAN.	
12 C, . . . .	\$20.00
16 C, . . . .	25.00
20 C, . . . .	30.00

NICKELED.	
4 A, . . . .	\$10.00
4 B, . . . .	16.00
8 B, . . . .	19.00
8 C, . . . .	23.00

NICKELED.	
12 C, . . . .	\$26.00
16 C, . . . .	31.00
20 C, . . . .	36.00

## COMBINATION COOLERS.

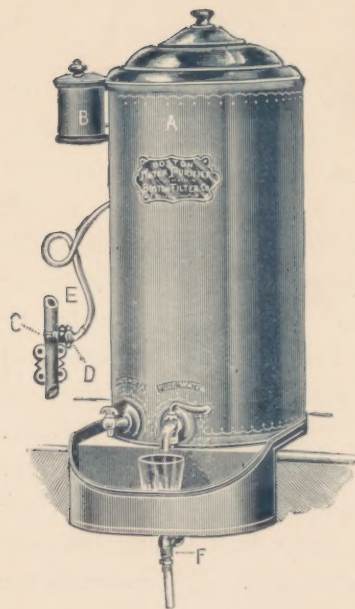
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OWING to the increased demand for a cooling attachment for our Gravity Filters, we have combined the advantages of both the filter and cooler in one apparatus. These filters resemble in appearance the ordinary cooler. The interior is divided into two sections. The upper portion serves as a tank for the unfiltered water and contains the tubes. From these tubes the purified water passes into the block tin reservoir in the lower portion. The ice is placed in the upper portion, in the unpurified water, chilling it and surrounding the reservoir for purified water, and acting directly on the same, but without coming in contact with the purified water itself. The folly can readily be appreciated of purifying water and then immediately contaminating it again by allowing it to come in contact with ordinary natural ice, containing, of course, all the impurities of unfiltered water. By our process this great defect has been eliminated. It will be noticed that this combination cooler can be used when desired equally well without ice, giving then the same results as the ordinary Gravity Filter.

No. 4 Combination Cooler has been designed especially for small families of from three to five persons, or for offices where pure cool water is desired. This No. 4 Cooler will render four gallons of pure water per day, which is kept in a chilled state by the envelope of ice water surrounding the reservoir. Filling the tank with ice in the morning will be sufficient to keep the purified water cool for the entire day. The reservoir for pure water in the No. 4 holds  $1\frac{1}{4}$  gallons; the tank contains about four gallons.

Combination Cooler No. 8 has a tank capacity of five gallons and a reservoir capacity for purified water of one gallon. No. 12, tank, twelve gallons; reservoir, two gallons.

Combination Coolers Nos. 8 and 12 are fitted with attachment to water service and automatic cut-off, the same as previously described with Gravity Filters B and C.



## PRICES OF COMBINATION COOLERS.

		JAPAN.	
No. 4,	.	.	\$15.00
" 8,	.	.	27.00
" 12,	.	.	37.00
		NICKELED.	
No. 4,	.	.	23.00
" 8,	.	.	36.00
" 12,	.	.	47.00

In addition to the regular line of filters previously described, we carry in stock, or can manufacture at short notice, various special lines suited for restaurant service, description of which would be too varied to give in this catalogue. We should be pleased to show or describe these on application at main office, or at any of our agencies.